

## 510(K) SUMMARY OF SAFETY AND EFFECTIVENESS

### 1. Submitted by :

September /02 / 2013

Kyu Lee / Overseas sales manager

**Jung Rim Medical Industrial Co., Ltd.**

#593-81, Sagok-Ri, Iwol-Myeon, Jincheon-Gun, Chungbuk, 365-820, Korea

Phone : +82 2 404 7986 Fax : + 82 2 404 7989

### 2. Device Name :

Trade Name : Jung Rim single use hypodermic Syringe with Needle

#### ◆ Piston syringe

- Classification : Class II
- Classification Name : Syringe, Piston
- Product Code : FMF
- Regulation Number : 21 CFR 880.5860
- Review Panel : General Hospital

SEP 12 2013

#### ◆ Hypodermic single lumen needle

- Classification : Class II
- Classification Name : Hypodermic single lumen needle
- Product Code : FMI
- Regulation Number : 21 CFR 880.5870
- Review Panel : General Hospital

**3. Predicate Device :**

**a) K number : K113091**

- Manufacturer : Jiangyin Caina Technology Co., Ltd.

1) Proposed Device Name: Syringes with or without needles

Classification: Class II

Product Code: FMF

Regulation Number: 21 CFR **880.5860**

2) Proposed Device Name: Needles

Classification: Class II

Product Code: FMI

Regulation Number: 21 CFR **880.5570**

**b) K number : K072739**

- Manufacturer : ShanDong WeiGao Group Medical Polymer Products Co., LTD

1) Proposed Device Name: Sterile Hypodermic Syringe for single use, with/without needle  
(1,2,3,5,10,20,30,50,100(ml))

Classification: Class II

Product Code: FMF

Regulation Number: 21 CFR **880.5860**

2) Proposed Device Name: Sterile Hypodermic Needle for single use  
(16G,18G,19G,20G,21G,22G,23G,24G,25G,26G,27G,29G)

Classification: Class II

Product Code: FMI

Regulation Number: 21 CFR **880.5570**

**4. Device Description :**

The Single use hypodermic Syringe with Needle is intended to be used for medical purposes to inject fluid into or withdraw fluid from body. The product consists of a Barrel, Piston, Gasket, Needle Needle cap.

The Single use hypodermic Syringe with Needle are offered various sizes (Luer slip (1,3,5,10,20,30,50 (ml)), and Needle size (16G, 17G, 18G, 19G, 20G, 21G, 22G, 23G, 24G, 25G, 26G, 27G, 28G, 29G, 30G, 31G)

Proposed syringes will be provided along with a proposed needle in one single package. The combinations of sizes are various upon the request of the users.

These are sterile (Eo gas sterilization). The devices are disposable, single use devices.

**5. Intended For Use :**

**1) The single us hypodermic syringe**

The Single use hypodermic Syringe with needle is intended to be used for medical purposes to inject fluid into or withdraw fluid from body.

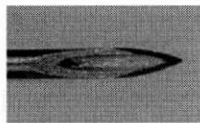
**2) The Hypodermic needle**

The Sterile hypodermic needle for single use is intended for use with syringes for general purpose fluid injection/aspiration

Proposed syringes will be provided along with a proposed needle in one single package. The combinations of sizes are various upon the request of the users.

## 6. Technological Characteristics :

The Single use hypodermic Syringe with needle and the predicate device have the identical technological characteristics and perform equivalently.

Device Name		Subject Device	Predicate Device #1	Predicate Device #2
Manufacturer		Jung Rim Medical Industrial Co., Ltd.	Jiangyin Caina Technology Co., Ltd.	ShanDong WeiGao Group Medical Polymer Products Co., LTD
510(k) Number		NEW	K113091	K072739
Syringe	Classification	Class II	Class II	Class II
	Product code	FMF	FMF	FMF
	Regulation Number	21 CFR 880.5860	21 CFR 880.5860	21 CFR 880.5860
Needle	Classification	Class II	Class II	Class II
	Product code	FMI	FMI	FMI
	Regulation Number	21 CFR 880.5870	21 CFR 880.5870	21 CFR 880.5870
Intended for use	Syringe	The Single use hypodermic Syringe with needle is intended to be used for medical purposes to inject fluid into or withdraw fluid from body.	Syringes with or without needle are intended to inject fluids into or withdraw fluids from the body.	The sterile Hypodermic syringe for single Use With/without needle is intended to be used for medical purposes to inject fluid into or withdraw fluid from body.
	Needles	The Sterile hypodermic needle for single use is intended for use with syringes for general purpose fluid injection/aspiration.	Needles are intended to be used with a legally marketed syringe intend to inject fluids into or withdraw fluids from the body.	The Sterile Hypodermic needle for single use is intended for use with syringes and injection devices for general purpose fluid injection/aspiration.
Syringe	Syringe type	Piston syringe	Piston syringe	Piston syringe
	Tip type	Luer slip	Luer slip and Luer lock	Luer slip and Luer lock
	Volume	1ml 3ml 5ml 10ml 20ml 30ml 50ml	1,2,3,5,10,20,30,50 (ml)	1,2,3,5,10,20,30,50,100(ml)
Needle	Gauge	16G, 17G, 18G, 19G, 20G, 21G, 22G,23G, 24G, 25G, 26G, 27G, 28G, 29G, 30G, 31G	16G,18G,19G,20G, 21G,22G,23G, 24G,25G,26G,27G,29G	16G,18G,19G,20G, 21G,22G,23G, 24G,25G,26G,27G,29G
	Tip configuration		same	same
	Hub color	According to ISO 6009	According to ISO 6009	According to ISO 6009

Device Name		Subject Device	Predicate Device #1	Predicate Device #2
Manufacturer		Jung Rim Medical Industrial Co., Ltd.	Jiangyin Caina Technology Co., Ltd.	ShanDong WeiGao Group Medical Polymer Products Co., LTD
510(k) Number		NEW	K113091	K072739
Materials	Syringe	Barrel	lubricated polypropylene	lubricated polypropylene
		Plunger	polypropylene	polypropylene
		Gasket	Styrene ethylene / Butylene copolyme	Resin stopper
	Needle	Tubing	lubricated stainless (STS304)	lubricated stainless (STS304)
		Hub	polypropylene	polypropylene
		Sheath	polypropylene	polypropylene
		Bonding	Epoxy bond	Epoxy bond
		Lubricant	Dimethylpolysiloxane	Dimethylpolysiloxane
	Principle of operation		Same	Same
	Biocompatibility		ISO10993-1	ISO10993-1
	Sterilization		Ethylene oxide gas (SAL 10 <sup>-6</sup> )	Ethylene oxide gas (SAL 10 <sup>-6</sup> )

**Performance Testing**

The Single use hypodermic Syringe with needle have been designed and successfully tested to meet the applicable requirements outlined in ISO7886-1, ISO7864, ISO9626, ISO6009 and ISO594-1.

**Biocompatibility Testing**

The material of the Single use hypodermic Syringe with needle have successfully passed testing as outlined in ISO10993-1 for devices categorized as External communicating devices. Limited exposure.

**Sterilization and Shelf-life Testing**

Sterilization of the Single use hypodermic Syringe with needle has been validated using the half-cycle method as outlined in ISO11135.

The maximum levels of residues of ethylene oxide and ethylene chlorohydrins will not exceed the limits presented in ISO10993-7. Shelf-life testing supports a shelf-life of 5-years after sterilization

**Clinical Data**

No prospective clinical trials were conducted in support of this Traditional 510(k)

**8. Conclusion**

Based on the information provided in this premarket notification of **Jung Rim Medical Industrial Co., Ltd.** Concludes that The Sterile Hypodermic Syringe for Single Use with needle is substantially equivalent to predicate devices



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration  
10903 New Hampshire Avenue  
Document Control Center – WO66-G609  
Silver Spring, MD 20993-0002

September 12, 2013

Jung Rim Medical Industrial Company Limited  
C/O Mr. Kyu Lee  
593-81, Sagok-Ri, Iwol-Myeon, Jincheon-Gun  
Chungbuk 365-820 Korea

Re: K124037

Trade/Device Name: Jung Rim Single Use Hypodermic Syringe with Needle  
Regulation Number: 21 CFR 880.5860  
Regulation Name: Piston Syringe  
Regulatory Class: II  
Product Code: FMF, FMI  
Dated: August 14, 2013  
Received: August 15, 2013

Dear Mr. Lee:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act

or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address <http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm>. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to <http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm> for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address <http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm>.

Sincerely yours,

Mary S. Runner -S

Kwame Ulmer, M.S.  
Acting Division Director  
Division of Anesthesiology, General Hospital,  
Respiratory, Infection Control and  
Dental Devices  
Office of Device Evaluation  
Center for Devices and  
Radiological Health

Enclosure



## Indication for use Statement

510(k) Number ( If known ) : K124037

Device Name : Jung Rim single use hypodermic syringe with Needle

**Indication for use :**

Jung Rim single use hypodermic syringe with Needle is intended to be used for medical purposes to inject fluid into or withdraw fluid from body.

Prescription Use   X    
(Part 21 CFR 801 Subpart D)

AND/OR

Over-The-Counter             
(Part 21 CFR 801 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)



Richard C.  
Chapman  
2013.09.12  
13:10:16 -04'00'

Division Sign-Off)  
Division of Anesthesiology, General Hospital  
Infection Control, Dental Devices

Indication for use statement

510(k) Number: K124037

Page 1 of 2